

CASE STUDY

Kelair-Blivet™ treats environment friendly at Barnbougale Dunes

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Barnbougale Dunes is an 18-hole championship links golf course, located on the edge of the small Tasmanian town of Bridport, just one hour's drive north-east of Launceston. It was recently ranked 49th in the world by US Golf Magazine, an outstanding accomplishment for such a new course.

The development contains a clubhouse, bar, restaurant and bungalow accommodation that required a unit capable of treating sewage for approximately 300 visitors and staff. The sewage and wastewater from the bungalows is gravity-reticulated to the treatment plant which comprises primary settlement, aerobic zone, final settlement (humus tank) and sludge storage, whereas the outflow from the clubhouse is pumped to the plant by a Kelair poly-packaged pump station.

Kelair Pumps proposed the Kelair-Blivet BL3000, sized to cater for the full development of the course, which is located in an environmentally-sensitive area. The unit is capable of treating 57,500 litres and 13.75kg of BOD per day during the coldest winter months, and more as the temperature rises.

The high quality final effluent is held in a 45,000 litre in-ground tank with disinfection being achieved through a Kelair-designed Dual disinfection system utilising a circulation pump, 3-pass UV unit and in-line chlorine unit, ensuring an extremely low thermo-tolerant coliform count.

The course irrigation system runs between 9.00pm and 7.00am and delivers up to 1.5 megalitres of water. A Kelair-manufactured duty/standby irrigation injection pumpset is utilised to discharge the final treated effluent into the main irrigation pumps' manifolds during the irrigation cycle. These have been sized to cover the maximum volume in the minimum irrigation time-frame.



The injection pumps are interlocked with the main irrigation pumps and are regulated to inject only between the hours of 11pm and 4am, minimising the risk of the public coming into contact with the treated effluent.

The Barnbougale Dunes Blivet installation proves that a sewage treatment plant can not only be low maintenance, quiet, odourless and efficient but also look good.

Richard Sattler the course owner says, "we're rapt with the Blivet, it blends in with the surroundings, works really well and the back up service from Kelair has been first class."

• For further product information visit our website www.kelairpumps.com.au